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Pharmaceutical Salts And Co Crystals

From crystal structure prediction to totally empirical screening,

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the quest for new crystal forms has become one of the most challenging issues in the solid state science and particularly in the pharmaceutical world. In this context, multi-component crystalline materials like co-crystals have received renewed interest as they offer the prospect of optimized physical properties.

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**Pharmaceutical Salts
and Co-crystals (RSC
Publishing)**

In the pharmaceutical industry, co-crystals are becoming increasingly valuable as crystalline solids that can offer altered/improved physical properties of an active pharmaceutical ingredient (API) without changing its chemical identity or biological activity.

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Special Issue
**"Pharmaceutical
Salts and Co-
Crystals"**

This unique book focuses on the currently 'hot topic' of Pharmaceutical Salts and Co-crystals and covers the following key topics: the fundamental aspects of salts and co-crystals; the role of fluorine in weak interactions in co-crystals; polymorph

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prediction of small
organic molecules, co-
crystals and salts;
shape and polarity in
co-crystal formation;
the role of co-crystals
in pharmaceutical ...

Pharmaceutical Salts and Co-crystals (Drug Discovery ...

A novel opportunity of
hot-melt extrusion are
pharmaceutical co-
crystals, co-amorphous
systems, and
pharmaceutical salts.

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Learn more here.

pharma-excipients - Drug

News. News Feed on
Excipients; Excipient

basics. Excipient

Solutions for CBD;

Inorganic Chemicals.

Calcium Carbonate;

Calcium Phosphates;

Pharmaceutical Co- crystals, Salts, and Co-amorphous ...

Chapter 1

Pharmaceutical Salts
and Co-crystals:

Retrospect and

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Salts And Co-
Prospects 1 R. Desiraju
Acknowledgement 6
References 6 Chapter 2
Discovery
Fundamental Aspects
of Salts and Co-crystals
9 Andrew D. Bond 2.1
Introduction 9 2.2
Definitions: Salts and
Co-crystals 10 2.3
Supramolecular
Chemistry,
Intermolecular
Interactions and
Crystal Packing 12

Pharmaceutical Salts and Co-crystals

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1. Introduction. For ionisable drugs (anionic, cationic and zwitterionic) salt formation is the simplest, most cost-effective strategy to address poor aqueous solubility and enhance bioavailability (Berge et al., 1977a, Berge et al., 1977b, Gould, 1986, Serajuddin, 2007). In addition to the positive impact on solubility, salts can beneficially affect the

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purity of the active
pharmaceutical...

Use of pharmaceutical salts and cocrystals to address the ...

Co-crystals A
pharmaceutical co-
crystal is a crystalline
form that can be used
to change
pharmaceutical
properties, such as
solubility, dissolution,
stability,
hygroscopicity, or

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bioavailability. Co-crystals can be used in early development for animal pharmacokinetic studies, in human clinical trials, and in marketed products.

Co-crystals

Co-crystals of nevirapine prepared by using maleic acid as a co-former the aqueous solubility was enhanced 14, 15 and

Co-crystals of

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exemestane and
maleic acid showed
high dissolution rate.
16 ...

**PHARMACEUTICAL
CO-CRYSTALS -AN
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Pharmaceutical Co-
Crystals o If,
however, it is
determined that the
classification of the
pharmaceutical solid as
a salt or co-crystal is
not predicated on

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these relative pKa
values, ...

Regulatory Classification of Pharmaceutical Co- Crystals ...

On August 16, 2016,
the US food and drug
administration
published a draft
guidance Regulatory
Classification of
Pharmaceutical Co-
Crystals. In this guide,
the FDA suggests
treating co-crystals as

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polymorphs, as long as proof is presented to rule out the existence of ionic bonds.

Energetic materials

Cocrystal - Wikipedia

- Salts and salt co-crystals are additional solid forms pharmaceutical scientists can use to change properties of an API.
- Salts and salt co-crystals can exhibit polymorphism and

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polymorph screening should be performed to find stable, metastable, hydrated, and solvated salt forms. • Issues, such as disproportionation and hygroscopicity ...

Salts - Crystal Pharmatech

The recently published FDA industry guidance on their regulatory classification of co-crystals has probably further manifested this

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uncertainty, as the FDA takes a completely different view-point on co-crystals than on salts. In this guidance, co-crystals are merely being considered as drug-product intermediates, i.e. as a formulation product ...

Pharmaceutical salts of small molecule drugs

Cocrystals are very interesting and useful product. In this paper

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the main information about cocrystals is presented. It is shown that cocrystals are solid substances, which consist of few components mixed together.

Pharmaceutical Cocrystals - ScienceDirect

From crystal structure prediction to totally empirical screening, the quest for new crystal forms has

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become one of the most challenging issues in the solid state science and particularly in the pharmaceutical world. In this context, multi-component crystalline materials like co-crystals have received renewed interest as they offer the prospect of optimized physical properties.

Pharmaceutical Salts and Co-crystals -

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Pharmaceutical salts and co-crystals Johan Wouters , Luc Quéré , Multi-component crystalline materials (salts and co-crystals) have received renewed interest due to their importance in the pharmaceutical industry, and pharmaceutical co-crystals and salts represent an emerging class of pharmaceutical materials offering the

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prospect of optimized
physical properties,
giving new, stable and
...

**Pharmaceutical salts
and co-crystals |
Johan Wouters; Luc
...**

Pharmaceutical salts
and co-crystals
represent an emerging
class of pharmaceutical
materials offering the
prospect of optimized
physical properties
giving new stable and

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patentable solid forms.
Indeed these multi-
component crystalline
forms influence
relevant physico-
chemical parameters
such as solubility, ...

Pharmaceutical Salts and Co-crystals (Drug Discovery ...

Pharmaceutical co-
crystal formation
represents a
straightforward way to
dramatically influence
the solid-state

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properties of a drug substance, particularly its solubility and hence bioavailability. This short review summarises this highly topical field, covering why the topic is of interest in pharmaceutical formulation, the definitions and practical scope of co-crystals, co-crystal ...

The role of co-crystals in

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drugs, salts and co-crystals can be considered as opposite ends of multi-component structures.¹⁶⁻¹⁷ Salt are often chosen in case of the free acid or base as these can improve crystalline, solubility and stability of a pharmaceutical compound. Co-crystals are an alternative

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