


Product datasheet

(R)-Sulforaphane, Ah receptor antagonist ab141971

Overview

Product name	(R)-Sulforaphane, Ah receptor antagonist
Description	Non-competitive antagonist of the Ah receptor
Biological description	Non-competitive antagonist of the aryl hydrocarbon receptor. Natural isothiocyanate. Antioxidant, promotes cell proliferation, reduces senescence and apoptosis. Upregulates CYP1A1/1B1 apoprotein levels <i>in vivo</i> . Chemopreventive. <i>S</i> -Sulforaphane (ab141970) and <i>R,S</i> -Sulforaphane (ab141969) also available.
Purity	> 98%
General notes	<p>ab141971 is a neat liquid at room temperature. It is not dissolved in solvent. We measure this material by weight, not by volume. In small quantities (<50mg) this material will coat the sides of the ampoule and may appear to be invisible. Furthermore, the material may become trapped in the tip of the ampoule. The material simply needs to be washed out of the upper and lower parts of the ampoule with solvent to ensure you have gotten it all.</p> <p>Solubility - ethanol, DMSO, methanol, ethyl acetate, and water.</p> <p>Ampoule Instructions:</p> <ol style="list-style-type: none"> 1. For your protection, wear safety gloves and other appropriate safety equipment. 2. Inspect the ampoule to ensure it isn't broken. If it is broken, please contact us for a replacement. 3. Wrap a towel around the ampoule to shield yourself from glass shards. 4. Using both hands, gently snap the ampoule along the pre-scored line. Be careful not to splash the compound out of the ampoule. 5. Wash both the top and bottom parts of the ampoule out with solvent to ensure you get all of the material out of the ampoule.
CAS Number	142825-10-3
Chemical structure	 <p>The chemical structure shows a central sulfur atom (S) with a positive charge. It is bonded to a methyl group (H₃C) on the left, an isothiocyanate group (NCS) on the right, and a butyl chain (represented by four carbon atoms in a zig-zag) extending downwards and to the right. An oxygen atom with a negative charge (O⁻) is bonded to the sulfur atom from above.</p>

Properties

Chemical name	1-Isothiocyanato-4-[(R)-methylsulfinyl]butane
Molecular weight	177.29
Molecular formula	C ₆ H ₁₁ NOS ₂
PubChem identifier	9577379
Storage instructions	Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12

months.

Solubility overview

Soluble in DMSO, ethanol or water

Handling

Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

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Source

Brassica oleracea

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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