Ceefourin™ 1, MRP4 inhibitor ab145144

Overview

Product name: Ceefourin™ 1, MRP4 inhibitor

Description: Highly selective multidrug resistance protein 4 (MRP4) inhibitor

Biological description: Highly selective multidrug resistance protein 4 (MRP4) inhibitor (IC$_{50}$ = 1.5 µM). Blocked transport of MRP4 substrates 6-Mercaptopurine, SN 38, cAMP, D-Luciferin and E217βG. No detectable effect on MRP4 homologs MRP1, 2, 3 or 5, and related transporters P-gp and ABCG2 in vitro. Low cellular toxicity, and high microsomal and acid stability. Chemically distinctive to Ceefourin™ 2 (ab145145).

Purity: > 99%

General notes: Sold under exclusive licence from Children's Cancer Institute. Ceefourin™ is a trademark of Children's Cancer Institute.

CAS Number: 315702-40-0

Chemical structure:

- Chemical name: 5-[(2-Benzothiazolylthio)methyl]-2,4-dihydro-4-methyl-3H-1,2,4-triazole-3-thione
- Molecular weight: 294.41
- Molecular formula: C$_{11}$H$_{10}$N$_{4}$S$_{3}$
- PubChem identifier: 704306

Storage instructions: Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in DMSO to 100 mM

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
S=C3NN=C(CSc1nc2cccc2s1)N3C

Source
Synthetic

Images

2D chemical structure image of ab145144, Ceefourin™ 1, MRP4 inhibitor

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

Our Abpromise to you: Quality guaranteed and expert technical support

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- We investigate all quality concerns to ensure our products perform to the highest standards

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