

Product Datasheet

Silibinin-d3 (orb2280745)

Description	Silibinin-d3 is a deuterated compound of Silibinin. Silibinin has a CAS number of 22888-70-6. Silibinin is the major active constituent of silymarin, a standardized extract of the milk thistle seeds, containing a mixture of flavonolignans consisting of silibinin, isosilibinin, silicristin, silidianin and others. Silibinin itself is a mixture of two diastereomers, silybin A and silybin B, in approximately equimolar ratio. Both in vitro and animal research suggest that silibinin has hepatoprotective (antihepatotoxic) properties that protect liver cells against toxins. Silibinin has also demonstrated in vitro anti-cancer effects against human prostate adenocarcinoma cells, estrogen-dependent and -independent human breast carcinoma cells, human ectocervical carcinoma cells, human colon cancer cells, and both small and nonsmall human lung carcinoma cells.
Storage	-20°C
Note	For research use only
Formula	$C_{25}H_{19}D_3O_{10}$
Purity	98.00%
MW	485.46
SMILES	<chem>O=C1[C@H](O)[C@@H](C2=CC=C(O[C@H](CO)[C@@H](C3=CC([2H])=C(O)C(O)C=C3)O4)C4=C2)OC5=C([2H])C(O)=C([2H])C(O)=C15</chem>
Expiration Date	12 months from date of receipt.

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