Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

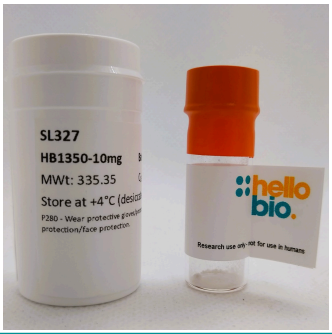
DATASHEET

SL327

Product overview

Name	SL327
Cat No	HB1350
Alternative names	SL 327
Biological action	Inhibitor
Purity	>98%
Description	Selective MEK1 and MEK2 inhibitor

Images



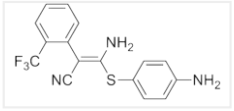
Biological Data

Biological description	Selective MEK1 and MEK2 inhibitor (IC_{50} values are 0.18 and 0.22 µM for MEK1 and MEK2 respectively) which allows selective inhibition of ERK activation. Blocks long term potentiation (LTP) in hippocampal slices in rat CA1. Also disrupts learning and memory and exhibits neuroprotective properties. Blood brain barrier permeable and active *in vivo*.

Solubility & Handling

Solubility overview	Soluble in DMSO (100 mM) and in ethanol (50 mM)
Storage instructions	+4°C (desiccate)
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20°C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	α-[Amino[(4-aminophenyl)thio]methylene]-2-(trifluoromethyl)benzeneacetonitrile
Molecular Weight	335.35
Chemical structure	

Molecular Formula	$C_{16}H_{12}F_3N_3S$
CAS Number	305350-87-2
PubChem identifier	9549284
SMILES	C1=CC=C(C(=C1)/C(=C(\N)/SC2=CC=C(C=C2)N)/C#N)C(F)(F)F
Source	Synthetic
InChi	InChI=1S/C16H12F3N3S/c17-16(18,19)14-4-2-1-3-12(14)13(9-20)15(22)23-11-7-5-10(21)6-8-11/h1-8H,21-22H2/b15-13+
InChiKey	JLOXTZFYJNCPIS-FYWRMAATSA-N
MDL number	MFCD06411432
Appearance	White solid

References

Regulation of cyclooxygenase-2 induction in the mouse uterus during decidualization. An event of early pregnancy.

Scherle PA *et al* (2000) J Biol Chem 275(47)
PubMedID 10969080

Significant neuroprotection against ischemic brain injury by inhibition of the MEK1 protein kinase in mice: exploration of potential mechanism associated with apoptosis.

Wang X *et al* (2003) J Pharmacol Exp Ther 304(1)
PubMedID 12490588

A necessity for MAP kinase activation in mammalian spatial learning.

Selcher JC *et al* (1999) Learn Mem 6(5)
PubMedID 10541468