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

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

customercare-usa@hellobio.com

DATASHEET

Cystamine dihydrochloride

Product overview

Name	Cystamine dihydrochloride
Cat No	HB0870
Biological action	Inhibitor
Description	Transglutaminase inhibitor

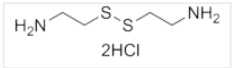
Biological Data

Biological description	Transglutaminase inhibitor. Shows neuroprotective actions and acts as an antioxidant. Shows actions against Huntington's disease.

Solubility & Handling

Storage instructions	room temperature (desiccate)
Solubility overview	Soluble in water (100mM) or DMSO (100mM)
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	2,2'-Diaminodiethyl disulfide dihydrochloride
Molecular Weight	225.2
Chemical structure	
Molecular Formula	$C_4H_{12}N_2S_2.2HCl$
CAS Number	56-17-7
PubChem identifier	5941
SMILES	NCCSSCCN.Cl.Cl
InChiKey	YUFRRMZSSPQMOS-UHFFFAOYSA-N

References

Therapeutic effects of cystamine in a murine model of Huntington's disease.

Dedeoglu A *et al* (2002) J Neurosci 22(20)
PubMedID 12388601

Cystamine and cysteamine increase brain levels of BDNF in Huntington disease via HSJ1b and transglutaminase.

Borrell-Pagès M *et al* (2006) J Clin Invest 116(5)
PubMedID 16604191

Oxidizing effects of exogenous stressors in Huntington's disease knock-in striatal cells--protective effect of cystamine and creatine.

Ribeiro M *et al* (2013) Toxicol Sci 136(2)
PubMedID 24008831

Cystamine and cysteamine prevent 3-NP-induced mitochondrial depolarization of Huntington's disease knock-in striatal cells.

Mao Z *et al* (2006) Eur J Neurosci 23(7)
PubMedID 16623826