

Product Data Sheet

Product Name: DSP-4
Cat. No.: GC12042

Chemical Properties

Cas. No. 40616-75-9

Chemical Name N-(2-bromobenzyl)-2-chloro-N-ethylethanamine hydrochloride

SMILES BrC1=CC=CC=C1CN(CC)CCCl.Cl

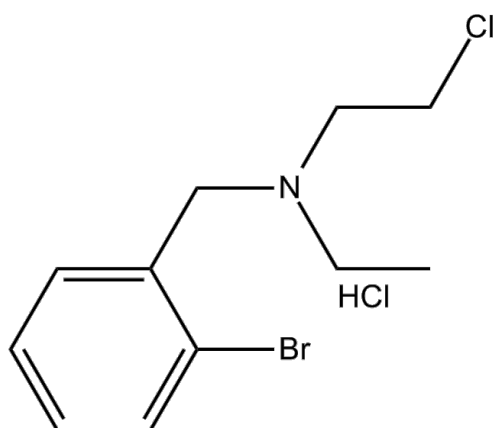
Formula $C_{11}H_{15}BrClN.HCl$ M.Wt 313.06

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml, Ethanol: PBS (pH 7.2) (1:2): 0.33 mg/ml
Storage Desiccate at RT

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

DSP-4 hydrochloride (Neurotoxin DSP 4 hydrochloride) is a highly selective neurotoxin and readily passes the blood-brain barrier with neurotoxic effects on noradrenergic neurons of adult and developing rats, can be used for the temporary selective degradation of the central and peripheral

Caution: Product has not been fully validated for medical applications. For research use only.

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noradrenergic neurons, mainly those from the locus coeruleus (LC)[1][2].

References:

- [1]. Hormigo S, et al. The selective neurotoxin DSP-4 impairs the noradrenergic projections from the locus coeruleus to the inferior colliculus in rats. *Front Neural Circuits*. 2012 Jun 28;6:41.
- [2]. Jaim-Etcheverry G, et al. DSP-4: a novel compound with neurotoxic effects on noradrenergic neurons of adult and developing rats. *Brain Res*. 1980 Apr 28;188(2):513-23.

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