

Product Data Sheet

Product Name: (2R,3S)-E1R

Cat. No.: GC38713

Chemical Properties

Cas. No. 1424832-60-9

SMILES O=C(N)CN1[C@H](C)[C@H](C2=CC=CC=C2)CC1=O

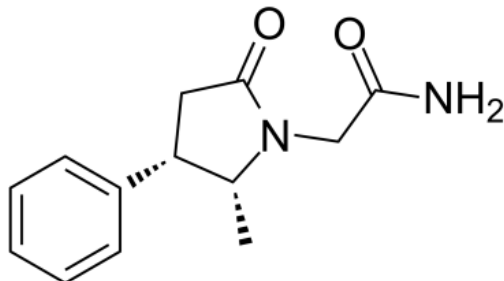
Formula $C_{13}H_{16}N_2O_2$ M.Wt 232.28

Solubility DMSO: 250 mg/mL (1076.29 mM) Storage Store at -20°C

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

(2R,3S)-E1R (Compound 2c) is an enantiomer of E1R. (2R,3S)-E1R is a sigma-1 receptor positive allosteric modulator (Sig1R PAM) for the treatment of cognition/memory disorders[1].

Sigma-1 receptor plays an important role in neuronal plasticity, a process implicated in the pathophysiology of neuropsychiatric diseases, such as Alzheimer's disease, major depressive disorders, and schizophrenia[1].

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

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[1]. Veinberg G, et al. Synthesis and biological evaluation of 2-(5-methyl-4-phenyl-2-oxopyrrolidin-1-yl)-acetamide stereoisomers as novel positive allosteric modulators of sigma-1 receptor. Bioorg Med Chem. 2013 May 15;21(10):2764-71.

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