

Product Information

Aceglutamide, Purity $\geq 98\%$

Cat. No.: X24-09-YM1409

Size: 1 g; 2 g; 5 g; 10 g

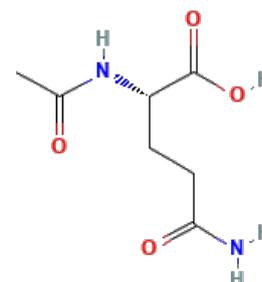
MDL: MFCD00038159

CAS Number: 2490-97-3

Compound CID: 182230

Synonym: 2490-97-3; α -N-Acetyl-L-glutamine; N2-Acetylglutamine;
(2S)-2-Acetamido-5-amino-5-oxopentanoic acid

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Aceglutamide, soluble in DMSO and water and insoluble in ethanol, is a psychostimulant, a nootropic agent that functions as a prodrug to glutamine with improved potency and stability. The molecular weight of the compound is 188.18, and its molecular formula is $C_7H_{12}N_2O_4$.
Molecular Weight	188.18
Molecular Formula	$C_7H_{12}N_2O_4$
IUPAC Name	(2S)-2-Acetamido-5-amino-5-oxopentanoic acid
InChI	InChI=1S/C7H12N2O4/c1-4(10)9-5(7(12)13)2-3-6(8)11/h5H,2-3H2,1H3,(H2,8,11)(H,9,10)(H,12,13)/t5-/m0/s1
InChI Key	KSMRODHGGIIXDV-YFKPBYSVSA-N
Canonical SMILES	<chem>CC(=O)NC(CCC(=O)N)C(=O)O</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Solubility	<i>In vitro</i> : DMSO (warmed): 36 mg/mL (191.31 mM); Water (warmed): 36 mg/mL (191.31 mM); Ethanol: insoluble
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	Aceglutamide plays a key role in modulating glutamate activity in the central nervous system, acting as a competitive inhibitor at certain glutamate receptors.



Storage

Store at -20°C, and keep desiccated.
