

## Product Information

### Acetylleucine, Purity $\geq 98\%$

**Cat. No.:** X24-09-YM1411

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

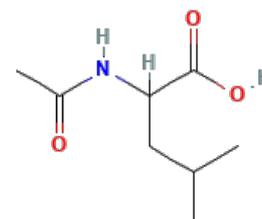
**MDL:** MFCD00026498

**CAS Number:** 99-15-0

**Compound CID:** 1995

**Synonym:** 99-15-0; N-Acetyl-L-leucine; 2-Acetamido-4-methylpentanoic acid

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



#### Product Information

<b>Description</b>	Acetylleucine, soluble in DMSO and ethanol and insoluble in water, is an acetylated form of leucine. The molecular weight of the compound is 173.21, and its molecular formula is C <sub>8</sub> H <sub>15</sub> NO <sub>3</sub> .
<b>Molecular Weight</b>	173.21
<b>Molecular Formula</b>	C <sub>8</sub> H <sub>15</sub> NO <sub>3</sub>
<b>IUPAC Name</b>	2-Acetamido-4-methylpentanoic acid
<b>InChI</b>	InChI=1S/C8H15NO3/c1-5(2)4-7(8(11)12)9-6(3)10/h5,7H,4H2,1-3H3,(H,9,10)(H,11,12)
<b>InChI Key</b>	WXNXCEHXYPACJF-UHFFFAOYSA-N
<b>Canonical SMILES</b>	CC(C)CC(C(=O)O)NC(=O)C
<b>Isomeric SMILES</b>	CC(=O)OCC1=C(N2[C@@H]([C@@H](C2=O)NC(=O)CC3=CC=CS3)SC1)C(=O)[O-].[Na+]
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Solubility</b>	<i>In vitro</i> : DMSO: 34 mg/mL (196.29 mM); Water: insoluble; Ethanol: 34 mg/mL (196.29 mM)
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Acetylleucine can be used for its neuroprotective properties and may help in conditions like myasthenia gravis.
<b>Storage</b>	Store at -20°C, and keep desiccated.



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