

Product Name	: Leteprininim
Synonyms	: AIT 082 acid; AIT-082 acid; AIT082 acid
Cat No.	: M27992
CAS Number	: 138117-50-7
Molecular Formula	: C15H13N5O4
Formula Weight	: 327.3
Chemical Name	: —
Description	<p>Leteprininim is an hypoxanthine derivative that stimulates in vitro neurite outgrowth and the production of adenosine and neurotrophins from astrocytes. (In Vitro): Leteprininim stimulates the outgrowth of neurites from PC12 cells and neurons, stimulates the synthesis and/or release of neurotrophic factors from astrocytes, enhances nerve fibre regeneration in vivo, and enhances memory in animals and humans. Leteprininim also protects against glutamate neurotoxicity in vitro and in vivo, which has led to successful tests of Leteprininim in animal models of acute central nervous system injury. (In Vivo): Leteprininim (60 mg/kg/day; i.p., for 7 days, starting from 20 min before the kainate injection) did not modify the seizures caused by kainate but, like diazepam, it decreased kainate-induced mortality, the reduction of GAD activity, and the loss of hippocampal neurons in rats.</p>
Pathway	: Others
Target	: Other Targets
Receptor	: —
Solubility	: —
SMILES	: <chem>OC(=O)c1ccc(NC(=O)CCn2cnc3c2nc[nH]c3=O)cc1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. BURSTEIN CL. Benzquinamide: cardiovascular stimulant useful during general anesthesia. Anesth Analg. 1963 Jul-Aug;42:429-34.