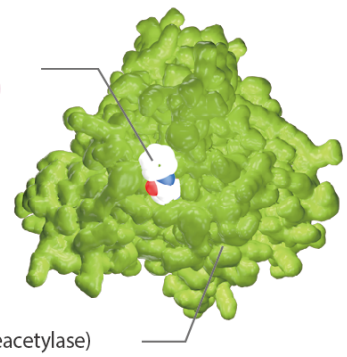
Aminopeptidase



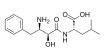
Aminopeptidases catalyze the cleavage of amino acids from the amino terminus of protein (N-terminus) or peptide substrates. They are widely distributed throughout the animal and plant kingdoms and are found in many subcellular organelles, in cytoplasm, and as membrane components. Aminopeptidases are used in essential cellular functions. Many, but not all, of these peptidases are zinc Metalloenzymes. Some aminopeptidases are monomeric, and others are assemblies of relatively high mass (50 kDa) subunits. CDNA sequences are available for several aminopeptidases and a crystal structure of the open state of human endoplasmic reticulum Aminopeptidase 1 ERAP1 is presented here. Amino acid sequences determined directly or deduced from cDNAs indicate some amino acid sequence homologies in organisms as diverse as Escherichia coli and mammals, particularly in catalytically important residues or in residues involved in metal ion binding. One important aminopeptidase is a zinc-dependent enzyme produced and secreted by glands of the small intestine. It helps the enzymatic digestion of proteins. Additional digestive enzymes produced by these glands include dipeptidases, maltase, sucrase, lactase, and enterokinase.

Aminopeptidase Inhibitors & Modulators

Bestatin
(Ubenimex) Cat. No.: HY-B0134

Bioactivity: Bestatin is a natural, broad-spectrum, and competitive **aminopeptidase** inhibitor.

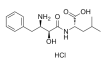
Purity: 99.96%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg



Bestatin hydrochloride
(Ubenimex hydrochloride) Cat. No.: HY-B0134A

Bioactivity: Bestatin hydrochloride is an inhibitor of **CD13 (Aminopeptidase N)/APN** and **leukotriene A4 hydrolase**, used for cancer treatment.

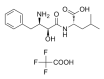
Purity: >98%
Clinical Data: Launched
Size: 10 mg, 50 mg, 100 mg



Bestatin trifluoroacetate
(Ubenimex trifluoroacetate) Cat. No.: HY-B0134B

Bioactivity: Bestatin trifluoroacetate is an inhibitor of **CD13 (Aminopeptidase N)/APN** and **leukotriene A4 hydrolase**, used for cancer treatment.

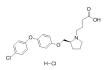
Purity: >98%
Clinical Data: Launched
Size: 10 mg, 50 mg, 100 mg



DG051
Cat. No.: HY-10825

Bioactivity: DG051 is a potent **leukotriene A4 hydrolase** inhibitor of leukotriene B4 biosynthesis in the enzyme assay with an $\mathbf{IC_{50}}$=47 nM.

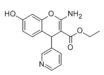
Purity: 99.65%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg



HFI-142
Cat. No.: HY-110259

Bioactivity: HFI-142 is an insulin-regulated aminopeptidase (IRAP) inhibitor with a $\mathbf{K_i}$ of 2.01 μM [1].

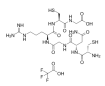
Purity: 99.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg



NGR peptide Trifluoroacetate
Cat. No.: HY-P1043A

Bioactivity: NGR peptide Trifluoroacetate containing the asparagine-glycine-arginine (NGR) motif is recognized by **CD13**/ **aminopeptidase N** (**APN**) **receptor** isoforms that are selectively overexpressed in tumor neovasculature.

Purity: 98.55%
Clinical Data: No Development Reported
Size: 10mM x 1mL in Water, 1 mg, 5 mg



Tosedostat
(CHR-2797) Cat. No.: HY-14807

Bioactivity: Tosedostat is an **aminopeptidase** inhibitor.

Purity: 99.65%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg