ALPHA DIAGNOSTIC INTERNATIONAL

Product Data Sheet

Cat# **SP-52238-1**

Description: Dermorphin [Tyr-D-Ala-Phe-Gly-Tyr-Pro-Ser-NH2; MW: 802.88]

Size: 1 mg

Purity: >95%

Store: Desiccated at -20oC

Dermorphin is a hepta-peptide first isolated from the skin of South American frogs belonging to the genus Phyllomedusa. The peptide is a natural opioid that binds as an agonist with high potency and selectivity to mu Opioid receptors. Dermorphin is about 30–40 times more potent than morphine but theoretically may be less likely to produce drug tolerance and addiction (due to its high potency).

Dermorphin is not found in humans or other mammals and similar D-amino acid peptides have only been found in bacteria, amphibians and molluscs. Dermorphin appears to be made in these through an unusual posttranslational modification carried out by an amino acid isomerase. This unusual process is needed because the D-alanine in this peptide is not among the 20 amino acids coded for in the genetic code and thus the peptide cannot be synthesized in the usual way from the encodings in the genome of an organism.

Dermorphin has been illegally used in horse racing as a performance-enhancing drug. Due to dermorphin's painkilling activity, horses treated with dermorphin may run harder than they would otherwise.

This product is for in vitro research use only.

Related Material available for ADI

Catalog#	Prod Description
SP-52238-1	Dermorphin [Tyr-D-Ala-Phe-Gly-Tyr-Pro-Ser-NH2; MW: 802.88]
SP-89059-5	[D-Arg2,Lys4]-Dermorphin (1-4), amide [Tyr-D-Arg-Phe-Lys-NH2; MW: 611.75]
SP-89060-5	[D-Arg2] Dermorphin (1-4), amide [Tyr-D-Arg-Phe-Gly-NH2; MW: 540.63]
SP-89579-5	[D-Arg2,Sar4]-Dermorphin (1-4) [Tyr-D-Arg-Phe-Sar; MW: 555.64]
SP-89580-5	[Phe4]-Dermorphin (1-4) amide [Tyr-D-Ala-Phe-Phe-NH2; MW 545.64]

SP-52238-1-Dermorphin 160212SV

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