



LKT Laboratories, Inc.

Vanilloid Receptor 1 Fragment

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Product Information

Product ID V0153

CAS No.

Chemical Name

Synonym Transient receptor potential vanilloid 1, TRPV1, VR1, capsaicin receptor, Vanilloid Receptor Subtype 1

Formula C₇₅H₁₁₈N₁₈O₂₈S₂

Formula Wt. 1783.99

Melting Point

Purity ≥95%

Solubility

Store Temp -20° C

Ship Temp Ambient

Description Transient receptor potential vanilloid 1 (TRPV1) channels are activated by heat, proton, endovanilloids, endocannabinoids, and inflammatory mediators. TRPV1 is also considered the capsaicin receptor; it modulates neurotransmission and pain/nociceptive signaling. TRPV1 is expressed on neurons in arteries, blood vessels, skin tissues, and in the brain. Activation of TRPV1 may result in skeletal muscle constriction and arterial vasoconstriction.

H-Cys-Glu-Asp-Ala-Glu-Val-
Phe-Lys-Asp-Ser-Met-Val-Pro-
Gly-Glu-Lys-OH

Bulk quantities available upon request

Product ID	Size
V0153	1 mg
V0153	2 mg
V0153	5 mg

References Anwar IJ, Derbenev AV. TRPV1-dependent regulation of synaptic activity in the mouse dorsal motor nucleus of the vagus nerve. *Front Neurosci.* 2013 Dec 13;7:238. PMID: 24379754.

Tóth A, Czíkora A, Pásztor ET, et al. Vanilloid Receptor-1 (TRPV1) Expression and Function in the Vasculature of the Rat. *J Histochem Cytochem.* 2013 Dec 5. [Epub ahead of print]. PMID: 24217926.

Kelly S, Chapman RJ, Woodhams S, et al. Increased function of pronociceptive TRPV1 at the level of the joint in a rat model of osteoarthritis pain. *Ann Rheum Dis.* 2013 Oct 23. [Epub ahead of print]. PMID: 24152419.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.