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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



HOXB7 (8-25) (trifluoroacetate salt)

Item No. 38836

Formal Name: ((S)-2-formylpyrrolidin-1-yl)-L-leucyl-L-leucyl-L-leucyl-L-lysyl-L-leucyl-L-leucyl-L-lysyl-L-seryl-L-valylglycyl-L-alanyl-L-glutaminy-L-lysyl-L-aspartic acid, trifluoroacetate salt
H—Pro—Leu—Leu—Leu—Lys—Leu—Leu—Lys—Ser—Val—

Synonym: Homeobox B7 (8-25)
Gly—Ala—Gln—Lys—Asp—OH

Peptide Sequence: PLLLLLLKSVGAQKD-OH

MF: C₇₅H₁₃₅N₁₉O₂₀ • XCF₃COOH • XCF₃COOH

FW: 1,623.0

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

HOXB7 (8-25) (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the HOXB7 (8-25) (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. HOXB7 (8-25) (trifluoroacetate salt) is soluble in the organic solvent DMSO at a concentration of approximately 5 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of HOXB7 (8-25) (trifluoroacetate salt) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of HOXB7 (8-25) (trifluoroacetate salt) in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

HOXB7 (8-25) is a peptide fragment of homeobox B7 (HOXB7), a master regulator of cell proliferation and an activator of oncogenic pathways.¹ Antigen presentation by HOXB7 (8-25) peptide-pulsed dendritic cells, derived from isolated human peripheral blood mononuclear cells (PBMCs), stimulates activation of, and IFN- γ production by, CD4⁺ helper T cells, which elicit both specific and promiscuous tumor-reactive antitumor responses.

Reference

1. Komatsuda, H., Wakisaka, R., Kono, M., *et al.* Mitogen-activated protein kinase inhibition augments the T cell response against HOXB7-expressing tumor through human leukocyte antigen upregulation. *Cancer Sci.* **114**(2), 399-409 (2023).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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