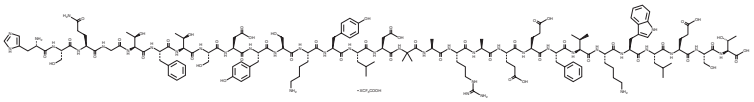
PRODUCT INFORMATION

Dasiglucagon (trifluoroacetate salt)

Item No. 46514



Formal Name: L-histidyl-L-seryl-L-glutaminylglycyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L-α-aspartyl-L-tyrosyl-L-seryl-L-lysyl-L-tyrosyl-L-leucyl-L-α-aspartyl-2-methylalanyl-L-alanyl-L-arginyl-L-alanyl-L-α-glutamyl-L-α-glutamyl-L-phenylalanyl-L-valyl-L-lysyl-L-tryptophyl-L-leucyl-L-α-glutamyl-L-seryl-L-threonine, trifluoroacetate salt

Synonyms: [Aib^{16},Ala^{17},Glu^{20},Glu^{21},Lys^{24},Glu^{27},Ser^{28}]-Glucagon, ZP4207, ZP-GA-1

Peptide Sequence: HSQGTFTSDYSKYLDXARAEEFVKWLEST-OH (X = 2-aminoisobutyric acid)

MF: $C_{152}H_{222}N_{38}O_{50} \bullet XCF_3COOH$

FW: 3,381.7

Purity: ≥98%

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

Dasiglucagon (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the dasiglucagon (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. Dasiglucagon (trifluoroacetate salt) is slightly soluble (0.1-1 mg/ml) in DMSO and a 1:1 solution of acetonitrile:water.

Description

Dasiglucagon is a glucagon receptor (GCGR) agonist and a derivative of glucagon (Item No. 24204).[1] Chronic administration of dasiglucagon increases basal plasma glucose levels but does not affect body weight, basal plasma insulin levels, or basal insulin sensitivity in high-fat diet-fed mice. However, chronic administration of dasiglucagon also reduces the insulin response in oral and intravenous glucose tolerance tests in high-fat diet-fed mice. Formulations containing dasiglucagon have been used in the treatment of severe hypoglycemia in patients with diabetes.

Reference

1. Ahlkvist, L., Omar, B., Valeur, A., *et al.* Defective insulin secretion by chronic glucagon receptor activation in glucose intolerant mice. *J. Endocrinol.* **228(3),** 171-178 (2016).

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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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM