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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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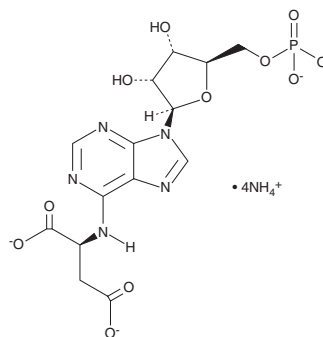
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PRODUCT INFORMATION

Adenylosuccinic Acid (ammonium salt)

Item No. 34334

Formal Name:	N-[9-(5-O-phosphono-β-D-ribofuranosyl)-9H-purin-6-yl]-L-aspartic acid, tetraammonium salt
MF:	C ₁₄ H ₁₄ N ₅ O ₁₁ P • 4NH ₄
FW:	531.4
Purity:	≥95%
UV/Vis.:	λ _{max} : 214, 268 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



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

Laboratory Procedures

Adenylosuccinic acid (ammonium salt) is supplied as a crystalline solid. Aqueous solutions of adenylosuccinic acid (ammonium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of adenylosuccinic acid (ammonium 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

Adenylosuccinic acid is a purine nucleotide and an intermediate in the purine nucleotide cycle.¹ It is converted into AMP and fumarate by adenylosuccinate lyase in the cytosol. Adenylosuccinic acid (10 μM) inhibits calcium-induced activation of non-selective cation channels in isolated rat brown adipocytes in a patch-clamp assay.² Adenylosuccinic acid (10 μM) increases glucose-induced insulin exocytosis in 832/13 INS-1 pancreatic β-cells.³ It induces contractions in isolated guinea pig uterus strips when used at a concentration of 100 μM.⁴

References

1. Waarde, A. Operation of the purine nucleotide cycle in animal tissues. *Biol. Rev. Camb. Philos. Soc.* **63**(2), 259-298 (1988).
2. Halonen, J. and Nedergaard, J. Adenosine 5'-monophosphate is a selective inhibitor of the brown adipocyte nonselective cation channel. *J. Membr. Biol.* **188**(1), 183-197 (2002).
3. Gooding, J.R., Jensen, M.W., Dai, X., *et al.* Adenylosuccinate is an insulin secretagogue derived from glucose-induced purine metabolism. *Cell Rep.* **13**(1), 157-167 (2015).
4. Nishida, Y. and Miyamoto, T. Contractile effect of succinylpurines on guinea pig uterus. *Gen. Pharmacol.* **19**(2), 277-279 (1988).

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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