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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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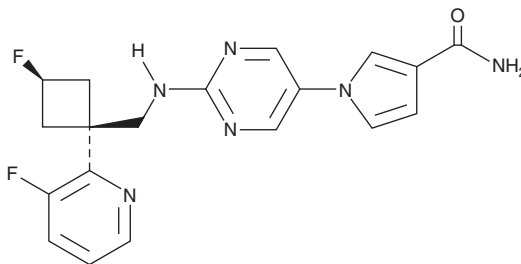
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PRODUCT INFORMATION



Reldesemtiv Item No. 41840

CAS Registry No.: 1345410-31-2
Formal Name: 1-[2-[[[trans-3-fluoro-1-(3-fluoro-2-pyridinyl)cyclobutyl]methyl]amino]-5-pyrimidinyl]-1H-pyrrole-3-carboxamide
Synonym: CK-2127107
MF: C₁₉H₁₈F₂N₆O
FW: 384.4
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

Reldesemtiv is supplied as a solid. A stock solution may be made by dissolving the reldesemtiv in the solvent of choice, which should be purged with an inert gas. Reldesemtiv is sparingly soluble (1-10 mg/ml) in DMSO.

Description

Reldesemtiv is an activator of fast skeletal troponin.¹ It increases ATPase activity in isolated rabbit psoas muscle myofibril preparations with a 40% activation concentration (AC₄₀) value of 0.6 μM. Reldesemtiv is selective for fast skeletal troponin over cardiac and slow skeletal troponin.² It is also selective for fast skeletal troponin over a panel of 79 enzymes, receptors, ion channels, and transporters at 100 μM.¹ Reldesemtiv increases muscle tension in a skinned fast skeletal muscle fiber assay with a 30% muscle force (DF₃₀) value of 0.8 μM.¹ *In vivo*, reldesemtiv (10 mg/kg, p.o.) increases running time in the rotarod test, indicating increased exercise performance, in a rat model of heart failure-induced skeletal myopathy.²

References

1. Collibee, S.E., Bergnes, G., Chuang, C., *et al.* Discovery of Reldesemtiv, a Fast Skeletal Muscle Troponin Activator for the Treatment of Impaired Muscle Function. *J. Med. Chem.* **64**(2), 14930-14941 (2021).
2. Hwee, D.T., Kennedy, A.R., Hartman, J.J., *et al.* The small-molecule fast skeletal troponin activator, CK-2127107, improves exercise tolerance in a rat model of heart failure. *J. Pharmacol. Exp. Ther.* **353**(1), 159-168 (2015).

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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