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Produktinformation

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- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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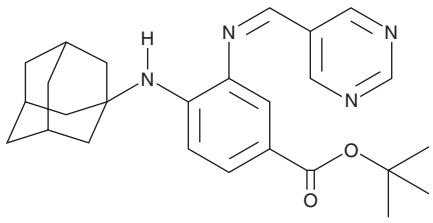
PRODUCT INFORMATION

SRS16-86

Item No. 26752

CAS Registry No.:	1793052-96-6
Formal Name:	3-[(Z)-(5-pyrimidinylmethylene)amino]-4-(tricyclo[3.3.1.1^{3,7}]dec-1-ylamino)-benzoic acid, 1,1-dimethylethyl ester
MF:	$C_{26}H_{32}N_4O_2$
FW:	432.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 238, 303, 429 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

SRS16-86 is supplied as a crystalline solid. A stock solution may be made by dissolving the SRS16-86 in the solvent of choice. SRS16-86 is soluble in the organic solvent chloroform, which should be purged with an inert gas, at a concentration of approximately 25 mg/ml. SRS16-86 is also slightly soluble in ethanol and DMSO.

Description

SRS16-86 is an inhibitor of ferroptosis.[1] It inhibits ferroptosis induced by erastin (Item No. 17754) in HT-1080 and NIH3T3 cells when used at a concentration of 1 µM. SRS16-86 (2 mg/kg) prevents renal tubular damage and increases in serum levels of urea and creatine in a mouse model of renal ischemia-reperfusion injury (IRI). In a rat model of spinal cord injury, SRS16-86 (15 mg/kg) increases the levels of glutathione peroxidase 4 (GPX4), system x_c^- cystine/glutamate transporter (xCT), and glutathione (GSH) and decreases levels of IL-1β, TNF-α, ICAM-1, and the lipid peroxidation marker 4-hydroxy nonenal (4HNE) in injured spinal cord epicenters.[2] It also increases tissue sparing and improves locomotor recovery in the same model.

References

1. Linkermann, A., Skouta, R., Himmerkus, N., *et al.* Synchronized renal tubular cell death involves ferroptosis. *Proc. Natl. Acad. Sci. U.S.A.* **111(47)**, 16836-16841 (2014).
2. Zhang, Y., Sun, C., Zhao, C., *et al.* Ferroptosis inhibitor SRS 16-86 attenuates ferroptosis and promotes functional recovery in contusion spinal cord injury. *Brain Res.* **1706**, 48-57 (2019).

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