SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- 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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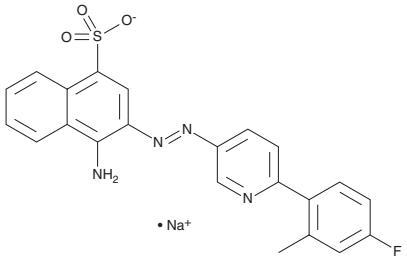
PRODUCT INFORMATION

KUS121

Item No. 30297

CAS Registry No.:	1357164-52-3
Formal Name:	4-amino-3-[2-[6-(4-fluoro-2-methylphenyl)-3-pyridinyl]diazenyl]-1-naphthalenesulfonic acid, monosodium salt
MF:	$C_{22}H_{16}FN_4O_3S \bullet Na$
FW:	458.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 234, 324, 484 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

KUS121 is supplied as a crystalline solid. A stock solution may be made by dissolving the KUS121 in the solvent of choice, which should be purged with an inert gas. KUS121 is soluble in the organic solvent DMSO.

Description

KUS121 is a valosin-containing protein (VCP) modulator that inhibits VCP ATPase activity (IC_{50} = 330 nM).[1] It inhibits cell death, ATP depletion, and upregulation of C/EBP-homologous protein (CHOP) induced by tunicamycin, an inducer of ER stress, in HeLa cells when used at concentrations of 20, 50, and 50 µM, respectively. KUS121 (100 µM) inhibits ATP depletion and cell death induced by oxygen-glucose deprivation (OGD) in rat primary cortical neurons in an *in vitro* model of cerebral ischemia.[2] It reduces infarction volume and increases the latency to fall in an accelerating rotarod test in a mouse model of focal cerebral ischemia induced by transient distal middle cerebral artery occlusion (MCAO) when administered at a dose of 100 mg/kg immediately following occlusion and again at 50 mg/kg following reperfusion. KUS121 (50 mg/kg) inhibits thinning of the retinal outer nuclear layer and preserves visual function in an rd10 mouse model of retinitis pigmentosa.[1]

References

1. Ikeda, H.O., Sasaoka, N., Koike, M., *et al.* Novel VCP modulators mitigate major pathologies of rd10, a mouse model of retinitis pigmentosa. *Sci. Rep.* **4**, 5970 (2014).
2. Kinoshita, H., Maki, T., Yasuda, K., *et al.* KUS121, a valosin-containing protein modulator, attenuates ischemic stroke via preventing ATP depletion. *Sci. Rep.* **9(1)**, 11519 (2019).

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