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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



Kobe 0065

Item No. 16261

CAS Registry No.: 436133-68-5

Formal Name: N-(3-chloro-4-methylphenyl)-2-[2,6-dinitro-4-(trifluoromethyl)phenyl]-hydrazinecarbothioamide

MF: C₁₅H₁₁ClF₃N₅O₄S

FW: 449.8

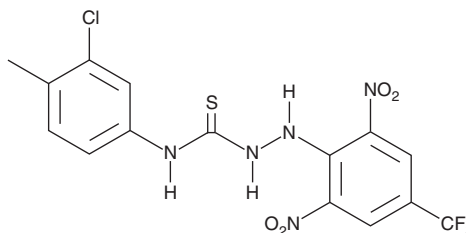
Purity: ≥98%

UV/Vis.: λ_{max}: 367 nm

Supplied as: crystalline 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

Kobe 0065 is supplied as a crystalline solid. A stock solution may be made by dissolving the Kobe 0065 in the solvent of choice, which should be purged with an inert gas. Kobe 0065 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of Kobe 0065 in these solvents is approximately 5, 20, and 10 mg/ml, respectively.

Kobe 0065 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Kobe 0065 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Kobe 0065 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

The Ras family of small GTPases (H-Ras, K-Ras, and N-Ras) function as molecular switches, cycling between a GTP-bound active state and a GDP-bound inactive state, to turn on downstream Raf protein kinases. This initiates complex signaling pathways involved in cell growth, differentiation, and apoptosis. Mutations leading to aberrant Ras activation are frequently associated with various human cancers. Kobe 0065 is an orally active Ras inhibitor with selectivity for H-Ras ($K_i = 46 \mu\text{M}$).¹ It can inhibit both anchorage-dependent and -independent growth and induce apoptosis of H-Ras^{G12V}-transformed NIH 3T3 cells ($\text{IC}_{50} = \sim 1.5 \mu\text{M}$), which leads to a down-regulation of MEK/ERK, Akt, RalA, and Son of sevenless.¹ At an oral dose of 80 mg/kg, Kobe 0065 also exhibits antitumor activity in mice bearing a xenograft of human colon cancer SW480 cells expressing K-Ras^{G12V}.¹

References

1. Shima, F., Yoshikawak, Y., Ye, M., *et al.* In silico discovery of small-molecule Ras inhibitors that display antitumor activity by blocking the Ras-effector interaction. *Proc. Natl. Acad. Sci. USA* **110**(20), 8182-8187 (2013).

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