Dacarbazine citrate

Cat. No.:	HY-B0078A
CAS No.:	64038-56-8
Molecular Formula:	C ₁₂ H ₁₈ N ₆ O ₈
Molecular Weight:	374.31
Target:	Apoptosis; Antibiotic
Pathway:	Apoptosis; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIV				
Description	Dacarbazine citrate is a cell cycle nonspecific antineoplastic alkylating agent. Dacarbazine citrate inhibits T and B lymphoblastic response, with IC ₅₀ values of 50 and 10 μg/mL, respectively. Dacarbazine Citrate can be used for the research of apoptosis and various cancers such as metastatic malignant melanoma ^{[1][2]} .			
In Vitro	Dacarbazine citrate has less respectively ^[2] . Dacarbazine citrate (30 μM, 0 EC ₅₀ value of 23 μM and sele Dacarbazine citrate (100-10, MCE has not independently Cell Viability Assay ^[3] Cell Line: Concentration: Incubation Time: Result:	pronounced inhibition of mitogenesis with IC ₅₀ values of 50 and 10 μg/mL for T and B cells, 0-14 min) evokes a concentration-dependent calcium response in hTRPA1-HEK293 cells with an ectively activates the human TRPA1 channel ^[3] . 000 μM, 24 h) has cytotoxic action on B16-F10 melanoma cells ^[3] . confirmed the accuracy of these methods. They are for reference only. B16-F10 cell 100-10,000 μM 24 h Reduced cell viability to 3.000 and 10.000 uM, with an inhibition percentage of 62 ± 2%		
	Nesutt.	after 24 h of incubation.		
In Vivo	Dacarbazine citrate (1 mg/kg with an EC ₅₀ value of 16 μM i ^[3] . Dacarbazine citrate (1 mg/kg and cold allodynia in mice ^[3] Dacarbazine citrate-induced TRPA1 receptor ^[3] .	g, i.p.) evokes a concentration-dependent calcium response and the maximum calcium response in a subset of cells of cultured mouse DRG neurons and excites TRPA1 in rodent sensory neurons g, i.p.; 1, 3, 5 and 7 days for chronic pain or 1 mg/kg, i.p. for acute treatment) induces mechanical l. d nociception can be reduced by TRPA1-deficient mice and antisense oligonucleotide for the		
	Dacarbazine citrate-induced chronic nociception can be reduced by selective TRPA1 receptor antagonists and antioxidants [3]			
	Dacarbazine citrate-induced pain model ^[3] . MCE has not independently	nociception can be resisted by RPA1 antagonist or an antioxidant in a tumor-associated cancer confirmed the accuracy of these methods. They are for reference only.		
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Product Data Sheet

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HO

 NH_2

ОH



Animal Model:	C57BL/6, Trpa1 ^{+/+} or Trpa1 ^{-/-} mice ^[3]
Dosage:	1 mg/kg
Administration:	1 mg/kg, i.p. (for acute treatment);1 mg/kg, i.p.; 1, 3, 5 and 7 days (for chronic pain
Result:	Caused mechanical allodynia with acute or repeated administration.

CUSTOMER VALIDATION

- Theranostics. 2020 Jul 25;10(21):9477-9494.
- J Mol Med (Berl). 2019 Aug;97(8):1183-1193.
- Exp Cell Res. 2020 Aug 1;393(1):112054.

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REFERENCES

[1]. Abdullah A Al-Badr, et al. Dacarbazine. Profiles Drug Subst Excip Relat Methodol

[2]. J M Rojo, et al. Inhibition of T and B lymphoblastic response by mithramycin, dacarbazine, prospidium chloride and peptichemio. Chemotherapy. 1983;29(5):345-51.

[3]. Int J Cancer, et al. Dacarbazine alone or associated with melanoma-bearing cancer pain model induces painful hypersensitivity by TRPA1 activation in mice. Int J Cancer. 2020 May 15;146(10):2797-2809.

Caution: Product has not been fully validated for medical applications. For research use only.

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