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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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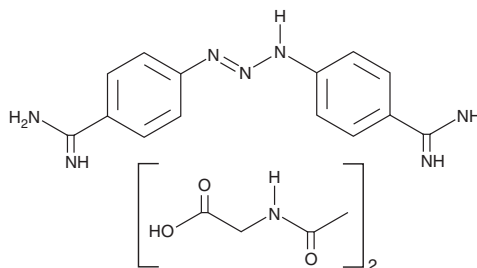
PRODUCT INFORMATION



Diminazene (aceturate)

Item No. 18678

CAS Registry No.: 908-54-3
Formal Name: 4,4'-(1-triazene-1,3-diyl)
bis[benzenecarboximidamide]
compd. with N-acetyl-glycine (1:2)
MF: $C_{14}H_{15}N_7 \cdot 2C_4H_7NO_3$
FW: 515.5
Purity: $\geq 98\%$
Supplied as: A crystalline solid
Storage: Room temperature
Stability: ≥ 2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Diminazene (aceturate) is supplied as a crystalline solid. A stock solution may be made by dissolving the diminazene (aceturate) in the solvent of choice. Diminazene (aceturate) is soluble in the organic solvent DMSO. Diminazene (aceturate) is soluble in water up to 75 mM. We do not recommend storing the aqueous solution for more than one day.

Description

Diminazene is a diamidine that is cytotoxic to protozoa, including *Trypanosoma*, *Babesia*, and *Cytauxzoon*.^{1,2} Diamidines, including diminazene, affect a variety of enzymes and modulate interactions between nucleic acids and proteins.³ Diminazene inhibits diamine oxidase with a K_i value of 13 nM.³ In *Trypanosoma*, transport proteins are important in the effectiveness of diminazene.⁴ In rats and *in vitro*, diminazene enhances the enzymatic activity of angiotensin-converting enzyme 2.⁵

References

1. Mosqueda, J., Olvera-Ramírez, A., Aguilar-Tipacamás, G., *et al.* Current advances in detection and treatment of Babesiosis. *Curr. Med. Chem.* **19**(10), 1504-1518 (2012).
2. daSilva Oliveria, G.L. and de Freitas, R.M. Diminazene aceturate-An antiparasitic drug of antiquity: Advances in pharmacology & therapeutics. *Pharmacol. Res.* **102**, 135-157 (2015).
3. Huang, T.L., Mayence, A., and Vanden Eynde, J.J. Some non-conventional biomolecular targets for diamidines. A short survey. *Bioorg. Med. Chem.* **22**(7), 1983-1992 (2014).
4. Munday, J.C., Settimo, L., and de Koning, H.P. Transport proteins determine drug sensitivity and resistance in a protozoan parasite, *Trypanosoma brucei*. *Front. Pharmacol.* **6**:32, (2015).
5. Sheony, V., Gjymishka, A., Jarajapu, Y.P., *et al.* Diminazene attenuates pulmonary hypertension and improves angiogenic progenitor cell functions in experimental models. *Am. J. Respir. Crit. Care Med.* **187**(6), 648-657 (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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