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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

PAMAM Dendrimer G3.0 Succinamic Acid (water solution)

Item No. 39120

Synonyms: PAMAM G3.0 Succinamic Acid,
Polyamidoamine Dendrimer G3.0 Succinamic Acid
FW: 10,109.0
Supplied as: A solution in water
Storage: -20°C
Stability: ≥2 years

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

Description

PAMAM dendrimer G3.0 succinamic acid (PAMAM G3.0 succinamic acid) is a polyamidoamine (PAMAM) dendrimer with succinamic acid termini that has been used as a drug delivery system *in vivo*.[1] It is approximately 35 Å in diameter in PBS and has 32 surface groups.[2,3] PAMAM G3.0 succinamic acid (10 µM) inhibits plaque formation induced by Middle East respiratory syndrome coronavirus (MERS-CoV) in infected Vero cells.[3] It is active against *S. aureus*.[4] Intravenous administration of PAMAM G3.0 succinamic acid conjugated to the tubulin polymerization inhibitor combretastatin A4 (combrestatin A4; Item No. 10007412) increases intratumoral necrosis and decreases intratumoral blood flow in an orthotopic U251 glioma rat xenograft model.[1]

References

1. Gonawala, S., Aryal, M., Ewing, J.R., *et al.* MRI monitoring of cerebral blood flow after the delivery of nanocombretastatin across the blood brain tumor barrier. *J. Nanomed. Nanotechnol.* **9(5)**, 516 (2018).
2. Dobrovolskaia, M.A., Patri, A.K., Simak, J., *et al.* Nanoparticle size and surface charge determine effects of PAMAM dendrimers on human platelets *in vitro*. *Mol. Pharm.* **9(3)**, 382-393 (2012).
3. Kandeel, M., Al-Taher, A., Park, B.K., *et al.* A pilot study of the antiviral activity of anionic and cationic polyamidoamine dendrimers against the Middle East respiratory syndrome coronavirus. *J. Med. Virol.* **92(9)**, 1665-1670 (2020).
4. Altaher, Y. and Kandeel, M. Structure-activity relationship of anionic and cationic polyamidoamine (PAMAM) dendrimers against *Staphylococcus aureus*. *J. Nanomater.* 4013016 (2022).

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