

PRODUCT DATA SHEET

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Lot. No.:

Oxyresveratrol powered by Lipodisq[™] Sterile Solution

Nano-formulated aqueous solution: Ready-to-use

Cat. No.: IAX-700-104

Synonyms	2, 3, 4, 5-tetrahydroxy-stilbene in a detergent-free nano-formulation made of styrene-maleic acid lip particles (SMALP)
Empirical Formula	C ₁₄ H ₁₂ O ₄
Concentration	Img/ml (0.1% w/vol)
Size	Iml
MW	244.2
CAS	29700-22-9
Purity	≥ 95% (HPLC)
Solution pH	7.00 - 7.50
Solubility	Soluble in water, PBS, Tris and other physiological solutions as formulated in a proprietary, thermostable, aqueous lipid nanoparticulate formulation (Lipodisq [™] , Malvern Cosmeceutics Ltd., Malvern UK). Avoid the use of buffers with divalent ions such as Ca or Mg or pH <6.5 or >8.0, which can cause particle instability. Unformulated oxyresveratrol is soluble in chloroform.
Formulation	Lipodisq [™] are nanosized lipid-based discoidal particles that can be manufactured to incorporate hydrophobic, poorly water-soluble compounds, such as lipids, lipoproteins and glycolipids.
Appearance	Light amber coloured clear aqueous solution
Handling	Keep sterile. Avoid skin and eye contact.
Activity	Cell culture tested (human macrophage cell line) (MTT). Recommended starting dilution: 1:200 or higher. Optimal working concentrations depend on the applications and need to be determined. Published procedures using Lipodisq [™] formulations (Curcumin and IAXOTLR4 antagonists) <i>in vivo</i> rodent models at 3-10mg/kg. Recommended route of administration is subcutaneous (s.c.) with ora or nasal application as a possible alternative, which needs to be optimised. Carrier only control: Lipodisq [™] Control Sterile Solution (Cat. No.: IAX-700-100).
Shipping	Ambient
Storage	2-8°C
Stability	12 months after receipt (unopened and as supplied)
MSDS	Available on request

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Oxyresveratrol powered by Lipodisq[™] Sterile Solution

Nano-formulated aqueous solution: Ready-to-use

Cat. No.: IAX-700-10	04 Lot. No.:
General Information	 Naturally occurring analogue of resveratrol. Potent antioxidant and free-radical scavenger. Neuroprotective activity against cerebral ischemia and against traumatic injury. Apoptosis inhibitor in transient cerebral ischemia. Inhibitor of viral DNA replication and late viral protein synthesis Depigmenting by effectively inhibiting tyrosinase activity, which catalyzes the rate-limiting step in synthesizing melanin pigments. Anti-inflammatory by inhibition of iNOS expression through down-regulation of NF-kB binding activity and significant inhibition of COX-2 activity. Anti-hyperlipidaemic agent

Oxyresveratol References

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Nano-formulated aqueous solution: Ready-to-use

Cat. No.: IAX-700-104 Lot. No.: A nanoparticle (11-40nm) drug delivery system comprising a discoidal phospholipid bilayer membrane stabilised by a chaperone molecule annulus. Internal properties of the phospholipid membrane support the disposition and stabilisation of drug molecule candidates and preserve the native conformation of membrane molecules. Lipodisq[™] Technology The resulting encapsulated actives are rendered water-soluble and specialised for intra-cellular penetration/delivery via endosomal uptake mechanisms.

Lipodisq[™] solutions show a good safety profile and are suitable for *in vitro* and *in vivo* investigations.

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For a customizable biodegradable Lipodisq[™] version with a higher concentration of actives or an alternative lipid option, contact Innaxon.

Component	Concentration	CAS #	EC #
Water (sterile)	QS	7732-18-5	231-791-2
Poly(styrene maleic acid)	25mg/ml	26762-29-8	607-996-1
Lecithin	9mg/ml	92128-87-5	295-786-7
Oxyresveratrol	l mg/ml	29700-22-9	608-401-8

Lipodisq[™] References

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