

PRODUCT DATA SHEET

Trade Name: ActiBiso™ 4BR

INCI Name: 4-Butylresorcinol

CAS: 18979-61-8

Description

ActiBiso™ 4BR is a highly effective skin whitening and brightening agent. In the three processes of melanin synthesis, 4-butylresorcinol not only has a very important inhibitory effect on tyrosinase activity, but also has a synergistic effect in the whitening activity. Prior to melanin synthesis, it interferes with tyrosinase synthesis and glycosylation, preventing the enzyme from being absorbed by melanosomes. During melanin synthesis, inhibiting enzyme activity acts as a competitive inhibitor of tyrosinase and TRP1 enzymes, reducing the formation of by-products that promote melanin progenitor. After melanin synthesis, it improves tyrosinase degradation, inhibits the transfer of melanosomes to keratinocytes, and has the effect of light stripping due to the action of fatty acids.

Quality Parameters

Appearance	White to off white powder
Odour	Characteristic
Assay %	99.0 min
Loss on drying %	1.0 max
Melting point °C	About 50.0
Residue on ignition %	0.5 max
Solubility	Soluble in methanol and in methylene chloride, Slightly soluble in water
Identification by IR	Match with standard
Related substances	
Resorcinol %	0.2 max
2,4-Dihydroxybutyrophenone %	0.5 max
Any other impurity %	1.0 max
Total of impurities %	1.0 max



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Residual solvents

Hexane (ppm)	100 max
Methanol (ppm)	500 max
Ethyl acetate (ppm)	5000 max

Storing

Keep in a cool and dry place, sealed and protected from light, with a shelf life of at least two years.

Package

1kg/ bag