

iSafeRabbit QSAR models for regulatory irritation/corrosion testing

CRACK IT Solutions

KREATiS is seeking partners to develop the wider applicability of their iSafeRabbit High Accuracy QSAR (HA-QSAR) models to predict the skin and eye irritation potential of chemical substances and mixtures.

What could the Solution be used for?

Applying iSafeRabbit early in product development provides a better evaluation of the irritation potential of substances than existing *in vitro* approaches, enabling companies to make more informed go/no-go decisions; saving money, time and animal use, and helping industries to adapt their products and formulations accordingly. iSafeRabbit can also support inverse QSAR methodology and identify safer formulations based on the toxicological implications and their physicochemical profile.

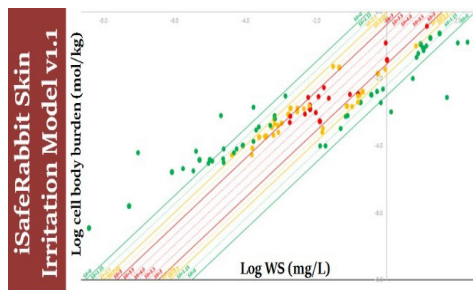
Need for collaboration

KREATiS is seeking existing *in vitro* and *in vivo* irritation data from various industrial domains, in particular cosmetics and household products and reactive substances, but also data on active ingredients from pharmaceuticals, pesticides and biocides. Support from potential collaborators (academia and industry) will extend the applicability of their models to other sectors.

3Rs impact

iSafeRabbit has the potential to replace the OECD 404 and 405 *in vivo* rabbit studies for skin and eye irritation and corrosivity predictions, reducing the number of animals required. iSafeRabbit could also be applied in cases where *in vitro* studies are inapplicable/insufficient, providing evidence to support waiving of *in vivo* studies. The technology will also help to identify those compounds early in development which are destined to fail, removing them from development before *in vivo* studies.

For more information or to contact the Solution provider: <https://crackit.org.uk/isaferrabbit-qsar-model-regulatory-irritationcorrosion-testing>



NC
3Rs

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