

Figure 5.
Interaction of flavorings with 3-cyano 7-hydroxycoumarin.

	0.5% PG/VG	0.5% AW	0.5% SP
Mean	227657	238100	229672
SEM	1452	1225	801

E-liquids at 0.5% (v/v) were incubated with 0.5 μ M of the fluorescent metabolite 3-cyano 7-hydroxycoumarin for one hour. Strawberry Poptart and Flamethrower, the two e-liquids that exhibited near-maximal inhibition of microsomal recombinant CYP2A6 activity, exhibited no reduction in fluorescence after incubation. This illustrates that e-liquids do not modify the fluorescent metabolite, indicating the decrease in fluorescence identified upon incubation is due to reduced formation of 3-cyano 7-hydroxycoumarin due to inhibition of microsomal recombinant CYP2A6. Mean \pm SEM, n=1. * indicates significant difference from the vehicle control (p<0.05).

uM: micromolar

SEM: standard error of the mean

v: volume

CYP2A6: cytochrome (enzyme) 2A6

IC50: 50% Inhibitory Concentration

PG: polyethylene glycol

VG: vegetable glycerin

AW: apple watermelon

SP: strawberry poptart

FT: flame thrower

p: p-value

0.5% FT
221980
2774